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NOTICE OF ALLOWANCE AND FEE(S) DUE

22850

7590

12/10/2010

EXAMINER

MALEKZADEH, SEYED MASOUD

PAPER NUMBER

OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, L.L.P. 1940 DUKE STREET ALEXANDRIA, VA 22314

ART UNIT

DATE MAILED: 12/10/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
	10/579.328	05/15/2006	Stephane Revol	290905US6X PCT	2136

TITLE OF INVENTION: DEVICE FOR FILLING A MOULD WITH A POWDER OR A MIXTURE OF POWDERS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	03/10/2011

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450

Alexandria, Virginia 22313-1450 (571)-273-2885 or <u>Fax</u>

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for

maintenance fee notifications. Note: A certificate of mailing can only be used for domestic mailings of the CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address) Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission. 22850 12/10/2010 Certificate of Mailing or Transmission OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, L.L. Phereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below. 1940 DUKE STREET ALEXANDRIA, VA 22314 (Depositor's name (Signature (Date APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 10/579.328 05/15/2006 290905US6X PCT 2136 Stephane Revol TITLE OF INVENTION: DEVICE FOR FILLING A MOULD WITH A POWDER OR A MIXTURE OF POWDERS APPLN. TYPE SMALL ENTITY ISSUE FEE DUE PUBLICATION FEE DUE PREV. PAID ISSUE FEE TOTAL FEE(S) DUE DATE DUE nonprovisional NO \$1510 \$300 \$0 \$1810 03/10/2011 **EXAMINER** ART UNIT CLASS-SUBCLASS MALEKZADEH, SEYED MASOUD 1743 264-239000 1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). 2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. or agents OR, alternatively, (2) the name of a single firm (having as a member a ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. 3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type) PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment. (A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY) 4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) 4a. The following fee(s) are submitted: lssue Fee A check is enclosed. Publication Fee (No small entity discount permitted) Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number ______ (enclose an extra copy of this fo Advance Order - # of Copies _ (enclose an extra copy of this form). 5. Change in Entity Status (from status indicated above) a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ■ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2). NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office. Authorized Signature Date Typed or printed name Registration No. This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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22850 75	590 12/10/2010		EXAMINER	
OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, L.L.P.			MALEKZADEH, SEYED MASOUD	
1940 DUKE STREET		ART UNIT	PAPER NUMBER	
ALEXANDRIA, V	/A 22314	2314	1743	

DATE MAILED: 12/10/2010

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 122 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 122 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)				
	10/579,328	REVOL, STEPHANE				
Notice of Allowability	Examiner	Art Unit				
	Soved M. Molekzedeb	1742				
	Seyed M. Malekzadeh	1743				
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this or other appropriate communical IGHTS. This application is subjection	s application. If not included ation will be mailed in due course. THIS				
1. X This communication is responsive to the amendment filed	<u>on 09/24/2010</u> .					
2. X The allowed claim(s) is/are <u>16-18,20-30,32 and 34.</u>						
3. ☑ Acknowledgment is made of a claim for foreign priority ur a) ☑ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have	, . ,).				
2. Certified copies of the priority documents have	been received in Application N	0				
	3. \(\sigma\) Copies of the certified copies of the priority documents have been received in this national stage application from the					
International Bureau (PCT Rule 17.2(a)).						
* Certified copies not received:						
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		eply complying with the requirements				
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give						
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.					
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached						
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date						
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date						
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t						
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT						
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. ☐ Notice of Inform	and Datant Application				
 Induce of References Cited (PTO-092) Induce of Professional Professio	6. ☐ Interview Sumn					
	Paper No./Mai	l Date				
3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date	7. 🔲 Examiner's Am	endment/Comment				
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🛛 Examiner's Sta	tement of Reasons for Allowance				
	9. Other					
/S. M. M./						
Examiner, Art Unit 1743						

DETAILED ACTION

Response to Amendment

Claims 1- 15, 19, 31, 33, and 35 are cancelled.

In view of the amendment, filed on 09/24/2010, following **rejections** are **withdrawn** from the previous office action for the reason of record.

- Rejection of claims 16-30, 32, and 34 under 35 U.S.C. 112, first paragraph
- Rejection of claims 16- 30, 32, and 34 under 35 U.S.C. 112, second paragraph
- Rejection of claims 16- 18, 26, 29- 30, and 32 are rejected under
 35 U.S.C. 103(a) as being unpatentable over Zahrah et al. (US '500)
 in view of Kita (JP 04-97964)
- Rejection of claims 19- 24 and 34 under 35 U.S.C. 103(a) as being unpatentable over Zahrah et al. (US 6,402,500) in view of Kita (JP '964) and further in view of Souers et al. (US 5,296,202)
- Rejection of claim 25 under 35 U.S.C. 103(a) as being unpatentable over Zahrah et al. (US '500) in view of Kita (JP '964) and Souers et al. (US '202) and further in view of Olson et al. (US 4,437,613)

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Rejection of claims 27- 28 under 35 U.S.C. 103(a) as being unpatentable over Zahrah et al. (US 6,402,500) in view of Kita (JP '964) and further in view of Bottoms (US 3,780,887)

Response to Arguments

Applicant's **arguments** in remarks, filed on 09/24/2010, with respect to the allowability of the claimed subject matter have been fully considered and **are persuasive.** Therefore, rejections of the claims 16- 18, 20- 30, 32, and 34 have been withdrawn.

Allowable Subject Matter

Claims 16- 18, 20- 30, 32, and 34 are allowed.

The following is an examiner's statement of **reasons for allowance**:

The prior arts fail to teach or suggest a system comprising at least one mold and a device for filling the mold with the powder while the mold having an internal volume divided into an array of several sections in such a way that the device comprising means for adding the at least one powder into the filling device, at least one means for ejecting the powder added into the filling device in the form of a layer and a plurality of deflectors placed above the mold each of the deflectors being placed above at least one, but not all, of the sections of the internal volume of the mold in which the deflectors being configured to locally intercept at least part of the powder ejected in the form of a layer and redirect locally intercepted powder towards the section of the internal volume of the

mold above which each of the respective deflectors are placed wherein the at least one means for ejecting the powder is a rotating device and wherein at least one of the deflectors is coupled to the rotating device, as claimed in the independent claim 16.

The closest **prior arts** of Zahrah et al. (US '500), Kita (JP '964), Souers et al. (US '202), Olson et al. (US '613), and Bottoms (US '887) **fail to teach** a plurality of deflectors placed above the mold in which each of the deflectors being **placed** above at least one but not all of the sections of the internal volume of the mold in which each deflector **redirect** the locally intercepted powder **towards** the section of the internal volume of the mold above which each of the respective deflectors is placed, and wherein the means for ejecting the powder is a rotating device and at least one of the deflectors is **coupled** to the rotating device. **Thus**, the claims 16- 18, 20- 30, 32, and 34 deemed allowed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Seyed M. Malekzadeh whose telephone

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number is (571)272-6215. The examiner can normally be reached on Monday to Friday 8:30 a.m. to 5:00 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph S. Del Sole, can be reached on (571) 272-1130. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/S. M. M. /

Examiner, Art Unit 1743

/Joseph S. Del Sole/

Supervisory Patent Examiner, Art Unit 1743